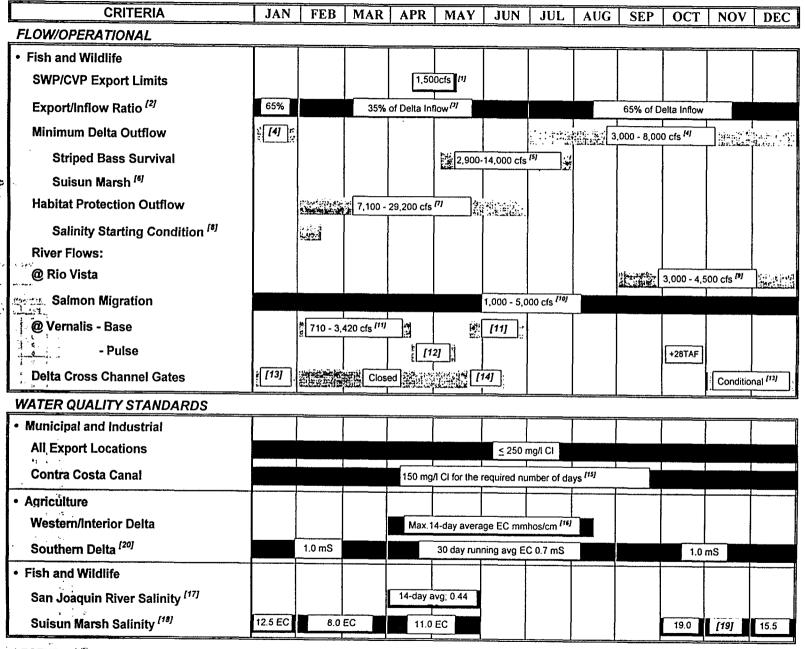
Bay-Jeila Standards

DRAF

Contained in D-1485, D-1422 and the Winter-Run & Delta Smelt Biological Opinions and in conformance with the 12/15/94

Principles for Agreement



LEGEND

Implemented under ESA Biological Opinions for Winter-Run Salmon and Delta Smelt Implemented under SWRCB D-1485 and D-1422 as revised June 8, 1995

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[#] See Footnotes

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11 Maximum 3-day running average of combined export rate (cfs) which includes Tracy Pumping Plant and Ckiton Court Forebay Inflow less Byron Bethany pumping

Year Type	All
April - Mayti'	The greater of 1,500 or 100% of 3-day avg. Vemalis flow

- * This time period may need to be adjusted to coincide with fish migration. Maximum export rate may be varied by Calfied Op's group
- 2) The maximum percentage of average Delta inflow (use 3-day average for belenced conditions with storage withdrawral, otherwise use 14-day average) diverted at Chiton Court Forebay (excluding Byron-Bethany pumping) and Tracy Pumping Plant using a 3-day average. (These percentages may be adjusted upward or downward depending no biological conditions, providing there is no net water cost.)
- 3) The maximum percent Delta inflow diverted for Feb may vary depending on the January 8RI

Jan SRI	Feb exp. Hmlt
\$ 10 MAF	45%
telween 1 0 & 1 5 MAF	35%.45%
> 1 5 WAF	35%

(4) Minimum monthly average Dalta outflow (cfs) if monthly standard = 5,000 cfs, then the 7-day average must be within 1,000 cfs of standard; if monthly standard > 5,000 cfs, then the 7-day average must be = 80% of standard

Year Type	Alf	W	AN	BN	0	C
Jan	4,500					T
Jul		8,000	8,000	6,500	5,000	4,000
Aug		4,000	4,000	4,000	3,500	3,000
Sep	3,000			1	1	1
Oct		4,000	4,000	4,000	4,000	3,000
Nev-Dec		4 500	4 500	4 500	4500	3 500

^{*} Increase to 6 000 if the Dec 8R) is greater than 800 TAF

'5) Minimum average Delta outflow (cfs) for period

Year Type	W	M	BH	Subnermal Snowmelt*	D	С
May6-31	14,000	14,000	11,400	6,500	4,300	3,300
Jun	14,000	10,700	9,500	5,400	3,600	3,100
Jul	10,000	7,700	6,500	3,600	3,200	2,900

- * Subnormal Snownell category applies to Wet, Above Normal, and Below Normal water year classifications only
- (6) The water quality standards for fish and wildlife set forth in Water Right Decision 1485 (D-1485), Table II, for striped bass spewning, Suisun Marsh, and operational contraints (export rates and Deta Cross Channel gate operations) are replaced with those contained in Attachment B of Order WR 95-6.
- 7] Minimum 3-day running average of daily Delta outflow of 7,100 cfs OR: either the daily average or 14-day running average EC at Collinsville is less than 2.84 mm/box/cm (This standard for March may be relaxed if the Feb SRI is less than 500 TAF. The standard does not apply in May and June if the May estimate of the SRI IS < 8.1 MAF at the 90% exceedance level in which case a minimum 14-day running average flow of 4,000 cfs is required.) For additional Delta outflow objectives, see TABLE A.</p>
- [8] February starting salinity: If Jan 8RI > 900 TAF, then the daily or 14-day running average EC @ Collinsville must be = 2.64 mmhos/cm for at least one day between Feb 1-14. If Jan 8RI is between 650 TAF and 900 TAF, then the Califed Op's group will determine if this requirement must be met.
- 19] Rio Vista minimum monthly average flow rate in cfs (the 7-day running average shall not be less than 1,000 below the monthly objective).

Year Type	All .	1 W	AN	BN	0	(<u>C</u>
Sop	3,000					
Oct		4,000	4,000	4,000	4,000	3,000
Nev-Dec		4,500	4,500	4,500	4,500	3,500

(0) Rio Vista minimum 30-day running average flow rate in cfs.

Year Type	W	AN	BN	0	С С
Jag	2.500	2.500	2,500	1.500	1,500
Febl Meris	3,000	2,000	2,000	1,000	1,000
# Laul-Bright	5,000	3,000	3,000	2,000	2,000
	2,000	2,000	2.000	1,000	1,000
Aug	1,000	1,000	1,000	1,000	1,000
Sep-Det	5,000	2,500	2,500	1,500	1,500

11] BASE Vernalis minimum monthly average flow rate in cfs (the 7-day running average shall not be less then 20% below the objective). Take the higher objective if X2 is required to be west of Chipps Island.

Year Type	KA.	W	AN	811	D	С
Feb-Aprili and Mayili-Jun		2,130 or 3,420	2,130 er 3,420	1,420 or 2,280	1,420 er 2,280	710 er 1,140

127 PULSE Vernalis minimum monthly average flow rate in cfs. Take the higher objective if X2 is required to be west of Chipps Island.

Year Type	A.N	W	AH	BH	D	С
Apriš - Mayiš		7,330 or 8,620	5,730 er 7,020	4,620 or 5,480	4,020 of 4,880	3,110 or 3,540
Oet	1,000					

 Up to an addisonal 28 TAF pulse/attraction flow to bring flows up to a monthly average of 2,000 cfs except for a critical year following a critical year. Time period based on real-time monitoring and determined by CalFed Op's group.

- [13] For the Nov-Jan period, Delta Cross Channel gates may be closed for up to a total of 45 days.
- [14] For the May 21-June 15 period, close Delta Cross Channel gates for a lotal of 14 days per CALFED Op's group. During the period the Delta cross channel gates may close 4 consecutive days each week, excluding weekends.
- [15] Minimum # of days that the mean daily chlorides =150 mg/l must be provided in intervals of not less than 2 weeks duration. Standard applies at Contra Costa Canal Intake or Antioch Water Works Intake.

Year Type	W	AX	BX	D	C
# Days	240	190	175	165	155

[16] The maximum14-day running average of mean daily EC (mmhos/cm) depends on water year type

	t	WESTER	DELTA			INTERIOR	DELTA	-3.	14
	San River @	Emmaton	SJR @ Jer	say Paint	Mokelumne R #	Terminous	SJR @ Sar	Andreas	1
Year Type	D 45 EC from April 1 to date shown	EC value from date shows to Aug 15 *	0 45 EC from April 1 to date shown	EC value from date shown to Aug 15 *	0 45 EC from April 1 to date shown	EC value from date shown to Aug 15 *	0 45 EC from April 1 to date shown	EC value from date shown to Aug 15 °	3
W	Aug 15		Aug 15		Aug 15	i	Aug 15	1977	1.
AXI	Jul 1	0.63	Aug 15		Aug 15		Aug 15		177
BM	Jun 20	1 14	Jun 20	0.74	Aug 15		Aug 15	20.00	1
	Jun 15	1 67	Jun 15	1 35	Aug 15		Jun 25	0.58	1
C		2 78		2 20		0.54	F 1 2 2 2 2	0 87	1.

- * When no date is shown, EC limit continues from April 1.
- 117] Compliance will be determined between Jersey Point & Prisoners Point. Does not apply in critical years or in May when the May 90% forecast of SRI × 8.1 MAF.
- [18] During deficiency period, the maximum monthly average mhtEC at Western Suisun Marsh stations as per SMPA is:

In November, maximum monthly average inhtEC = 16.5 for Western Marsh stations and maximum monthly average inhtEC = 15.5 for Eastern Marsh stations in all periods
More

mhEC	1. 出版好影
190	1
16.5]
15 6	3137
14 0	1
12 5	7
	19 0 16 5 15 8 14 0

Albert .

| 209 | Per D-1422, maximum 30-day running average EC for San Joaquin River at Vernalis, San Joaquin River at Brant Bridge, Old River near Middle River, and Old River at Tracy Road Bridge. Revisions may be made when DWR, USBR, and SDWA agree on new contract.

The EC objectives at Old River shall be implemented by 12/31/97.

TABLE A

Number of Days When Max Daily Average Electrical Conductivity of 2.64 mmhos/cm Must Be Maintained. (This can also be met with a maximum 14-day running average EC of 2.64 mmhos/cm, or 3-day running average Delta outflows of 11.400 cfs and 29.200 cfs, respectively.) Port Chicago Standard is triggered only when the 14-day average EC for the lest day of the previous month is 2.64 mmhos/cm or less. PMI is previous month's SRI. If saintly/flow objectives are met for a greater number of days thun required for any month, the excess days shall be applied towards the following month's requirement. The number of day's for values of the PMI between those specified below shall be determined by linear interpolation.

PMI	Chipps Island (Chipps Island Station D10)							
(TAF)	FEB	MAR	APR	MAY	JUN			
\$ 500	0	0	0	0	0			
750		0	٥	0	. 0			
1000	28.	12	2	0	0			
1250	28	31	6	0	0			
1500	28	31	13	_ 0	0			
1750	28	31	20	0	0			
2000	28	31	25	1	0			
2250	28	31	27	3	0			
2500	28	31	29	11	1			
2750	28	31	29	_ 20	2			
3000	28	31	30	27	4			
3250	28	31	30	29				
3500	28	31	30	30	13			
3750	28	31	30	31	18			
4000	_28	31	30	31	23			
4250	28	31	30	31	25			
4500	28	31	30	31	27			
4750	28	31	30	31	28			
5000	28	31	30	31	29			
5250	28	31	30	31	29			
0.5500	78	31	30	31	30			

*When 800 TAF < PMI < 1000 TAF, the number of days is determined by linear interpolation between 0 and 28 days.

	Port Chicago : V > [t						
PM	(continuous recorder at Port Chicago)						
(TAF)	FEB	MAR	APR	MAY	JUN		
0	0	. 0	0,	0بير	9		
250	1	0	0	30	.0		
500	4	1 1	0	0 -	,0		
750	8	2	0	0	0		
1000	12	1_1_	0		_و_		
1250	15	6	1	0	÷0.		
1500 1750	18		1 !	~,**	. 0		
2000	20	12 15	2	0	0		
2250	22	17	5_	0	~^ 0		
2500	23	19		1,5			
2750	24	21	10	2	0		
3000	25	23	12	4.			
3250	25	24	14	6	7 0		
3500	25	25	16				
3750	26	26	18	12	0		
4000	26	27	20	15	0.		
4250	26	27	21	18	4		
4500	26	28	23	21	2		
4750	27	28	24	23	-2		
5000	27	28	25	25	-4		
5250	27	29	25	26	6		
5500	27	29	26	28			
5750	27	29	27	28	13		
6250	27	30	27	29	16		
6500	27	30	27	29 30	19		
6750	27	30	28 28	30	22 24		
7000	27	30	28	30	26		
7250	27	30	28	30	27		
7500	27	30	29	30	28		
7750	27	30	29	31	28		
8000	27	30	29	31	29		
8250	28	30	29	31	29		
8500	28	30	29	31	_29		
8750	28	30	29	31	30		
9000	28	30	29	31	30		
9250	28	30	29	31	30		
9500	28	31	29	31	30		
9750	28	31	29	31	_30_		
10000	28	31	30	31	30		
> 10000	28	31	30	31	_ 30		